

1. A method for monitoring business transaction processing in an environment containing a number of component-based applications, wherein a first application emits a stream of events representative of a state transition or significant occurrence, the method comprising continuously:

5 detecting whether an event occurs in the first application, and for each event detected: a) capturing event data values corresponding to the event, wherein the event data values identify the application that generated the event and the time of the event generation; and b) collecting the event and the associated event data in a first event buffer; and

10 correlating events from the first event buffer into a correlation buffer, wherein the events in the correlation buffer are ordered according to the time of event generation;

2. A method for monitoring business transaction processing in an environment containing applications comprised of a plurality of components, wherein a first application emits a stream of events representative of a state transition or a significant occurrence, the method comprising continuously:

15 detecting whether an event occurs in the first application, and for each event detected: a) capturing event data values corresponding to the event, wherein the event data values identify the application that generated the event and the time of the event generation; and b) collecting the event and the associated event data in a first event buffer; and

20 associating each event to at least one other event to create a merged event; and

25 creating a transaction from the merged event, the transaction comprising a start, an end, and a duration, wherein a transaction is a single, atomic operation performed on behalf of a particular user.

3. The method of claim 1 or 2 further comprising collecting a set of transactions to form a real-time transactional model of the business transaction processing.

30 4. The method of claim 1 or 2 wherein creating a transaction further comprises:

partitioning transactions into transaction sets based on the transaction name; and

determining an active number of transactions and a completed number of transactions.

- 5 10. The method of claim 1 or 2 further comprising:
detecting a system event generated by an operating system, wherein the system event provides data descriptive of a process executing a transaction; and
correlating the system event with the transaction.
11. The method of claim 10 further including:
10 collecting a series of system events; and
generating a performance curve of the system using the system events.
12. The method of claim 11 further including correlating the set of transactions and the performance curve of the system to evaluate the business transaction processing.